



1550nm Erbium Doped Fiber Amplifier
(EDFA) • BOTX-5100-IHXX,
BOTX-5100-OPXX

Technical Specification

CONTENT

1.0 PRODUCT DESCRIPTION	3
2.0 PRODUCT FEATURE	4
3.0 MAIN APPLICATION	4
4.0 TECHNIQUE INDEX	5
5.0 OPTICAL/ELECTRICAL SCHEMA	6
6.0 PRODUCT SERIES (INDOOR / OUTSIDE PLANT)	7

1.0 PRODUCT DESCRIPTION

BOTX-5100 Indoor and Outside Plant series are CATV booster EDFA with gain spectrum band within 1540~1565nm. It is designed for the application of single channel or 1~8 continuous ribbon channels (ITU wavelength). Our EDFA features a low NF and high-saturated output power to insure optimal performance. We utilize the finest components to insure that our products are always reliable today and into the future.

Our 5100 series adopts the world's top class pump laser and America OFS erbium-doped optical fiber technology, insuring optimum APC, ACC and ATC control, excellent convection design and heat compressing technology to ensure the long life and high reliable work of pump laser.

RS232 and RJ45 ports offer serial commutation and SNMP network management port. The LCD at the front panel offers the work index of all equipment and warning alarm. The laser will switch off automatically if optical power is missing, which offers security protection for the laser. Front port instalation (unless the customer specifies).

2.0 PRODUCT FEATURE

- 1540~1563nm operating bandwidth
- Low noise, high output, high reliability
- APC、ACC、ATC controlled selection (HA5100/P)
- Powerful RS232 supervisory instruction
- Two distinct options: "IH" Indoor/Hub1RU (19" stander), "OP" Exterior outside plant unit.
- Our "OP" exterior unit offers status appearance and diagnosing fault, standard RS232 communication interface and SNMP network management function
- Superior quality in design, components & quality control
- Excellent P/P ratio in network

3.0 MAIN APPLICATION

- Network Extention
- Digital and Analog CATV
- Cellular & MMDS
- FTTP
- FTTx PON
- Laboratory application

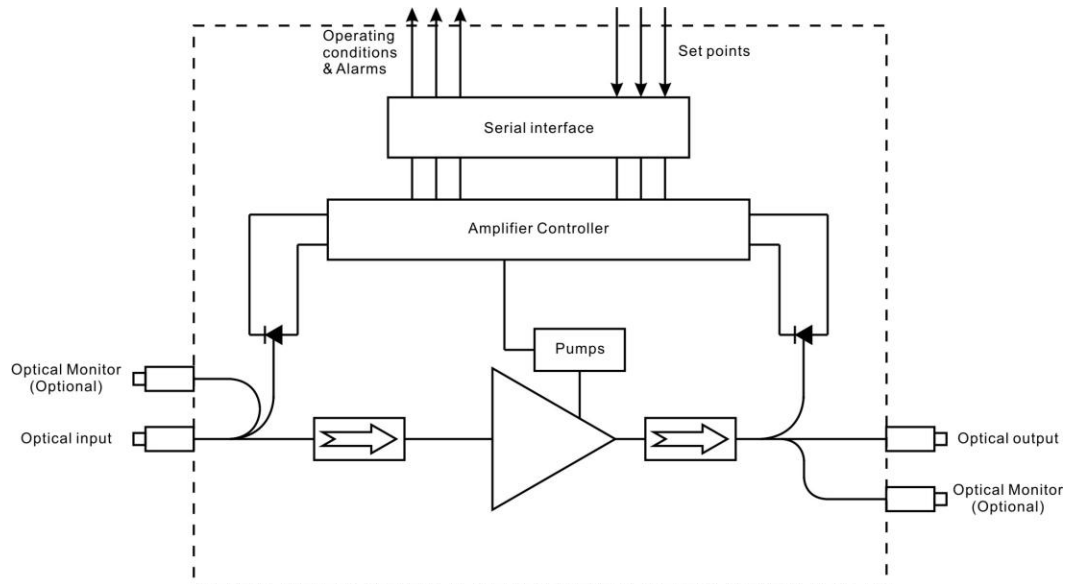
4.0 Technique index

Performance			Index			Supplement	
			Min.	Typ.	Max.		
Optical feature	Operating wavelength	(nm)	1540		1563	CATV	
	Input power	(dBm)	-10	+3	+10		
	Maximum output	(dBm)	+10		+26	Pin=0dBm	
	Output power	(dBm)	-6		0	HA5100/P	
	Number of output ports			1		8	SC/APC
				1		16	LC/APC
	Difference of each	(dBm)	-0.5		+0.5		
	Noise figure	(dB)			5.0	HA5100-19	
	Polarization	(dB)			0.3		
	Polarization	(dB)			0.4		
	Polarization mode	(ps)			0.5		
	Input/output isolation	(dB)	30				
	Pump power leakage	(dBm)			-30		
Echo loss	(dB)	55			APC		
General feature	SNMP network		RJ45				
	Serial interface		RS232				
	Power supply	(V)	90		265	220VAC	
			30		72	-48VDC	
			23		25	+24VDC	
	Power consume	(W)			50		
	Operating temp.	(°C)	-5		65		
	Storage temp.	(°C)	-40		80		
	Operating relative	(%)	5		95		
	Size (W)×(D)×(H)	(")	19×14.5×1.75			1RU (19")	
(")		12.4×15.4×5.25			3D (12.4", desk-type)		
(mm)		150×125×22			Modulator		

Remark: Output power can be customized by user

5.0 Optical/electrical schema

1. Optical port mode M4 (With input & output monitor port)



6.0 PRODUCT SERIES

BOTX-5100-IHXX: Indoor / Hub EDFA, single output, Premium Pump Laser.



BOTX-5100-OPXX: Outside Plant EDFA, Single output, Premium Pump Laser - Great for network flexibility.



** dB values that are available are 13,14,15,16,17,18,19,20, 21,22 & 23

*** Need to specify connector type when ordering

**** SNMP - is optional